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## RAW SEQUENCE LISTING

DATE: 01/30/2001

PATENT APPLICATION: US/09/477,082

TIME: 10:49:08

Input Set : A:\seqlist.txt.txt

Output Set: N:\CRF3\01302001\I477082.raw

4 <110> APPLICANT: Kidd, Vincent J.  
5 Lahti, Jill M.  
6 Teitz, Tal  
8 <120> TITLE OF INVENTION: A Tumor Suppressor Protein Involved in Death Signaling, and  
9 Diagnostics, Therapeutics, and Screening Based on This Protein  
11 <130> FILE REFERENCE: 2427/1E988-US1  
13 <140> CURRENT APPLICATION NUMBER: 09/477,082  
14 <141> CURRENT FILING DATE: 1999-12-30  
16 <150> PRIOR APPLICATION NUMBER: 60/114,308  
17 <151> PRIOR FILING DATE: 1998-12-31  
19 <160> NUMBER OF SEQ ID NOS: 34  
21 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
23 <210> SEQ ID NO: 1  
24 <211> LENGTH: 670  
25 <212> TYPE: DNA  
26 <213> ORGANISM: Human  
28 <400> SEQUENCE: 1  
29 aagcgctcca agacacgatt gcagaagga caccgggttg ccaactgaaa tttgaagaac 60  
30 agggccaaag atgggaactc agcctgagca cgggttgatc cggagcaggg ctaagccaaag 120  
31 tacgaatgaa ccagaccact tcctcctttt ttctgaaag atctaccgc atttcagcca 180  
32 cagggtgac ttaccacagt ccggcgggag ggaggagagg gctggtctgt gacttcagtg 240  
33 ctgagggttg atcaaygcaa agggaaaact cctattccca gaccctttgc aagaaagaat 300  
34 ggcataattac ttgcgcgcga caggggttat tattactaaa tggagtcagt ataaatgctt 360  
35 tccaataaag catgtccagc gctcgggctt tagtttgac gtccatgaat tgtctgccac 420  
36 atccctcttc tgaatgggtg gaattgggca tctctgttcc tttaaacagg aaacatttct 480  
37 tgttcgagtg agtcactctt gttctgcttt aggagtaaa tttaccctgc agttccttct 540  
38 gtggtgaagt ttctcttttc tctcggagac cagattctgc ctttacgctg gagggagtg 600  
39 ttttcacagg ttctcctcct ttatctttt gtgtttttt tcgagccatg ggggttaaat 660  
40 aaagcgcttt 670  
42 <210> SEQ ID NO: 2  
43 <211> LENGTH: 753  
44 <212> TYPE: DNA  
45 <213> ORGANISM: Human  
47 <400> SEQUENCE: 2  
48 aattagaccg cgtattgaaa gtaaaagaaa cttcttcctg ggagcctttc ccaccccctt 60  
49 ccctgctgag cagtggaagt taggcagggt aggggactcg gagactgca tggtyccagg 120  
50 aaaggggtga gcgggtgagt gcctgttgcc aagggtggct cttcaacagg aaaccacaat 180  
51 atttttgttt cttgacttgc tclagaaaca gggctgtggg ggtggggaag caacttggat 240  
52 ctgcccctct gaggaacct ctggtgctgc ctggcccagg tctcctgtgt ggtttctctc 300  
53 tgagccgatg cctttgactt tgctactttt tcaactctgag cagtctccag ttctctgct 360  
54 acctttttgt cctccaagct tcctgccgc ctccaatgca gatacacgga ctcccttctg 420  
55 tggaccctgt tggagagtc agaaagactt atcaatccac ttttttttct ttttcatttg 480  
56 gccctggggg ccgacgggta agtactttat tctgtcattc tctcgaatca cgaatgccct 540  
57 gaggtgcaca gcccttttcc cctctttcgc gtcctgaagg ggtttccttt tatgtcttcc 600  
58 acccccaccc ttccctctcc ctgccctctg tttttgttgc ccaaaaaaca agttctctaa 660  
59 acgttttctg tgtggattcg cggaaaatta acctgcaccc gtttgcaaaa tgaacttttt 720  
60 ttttttgatc ctgtacactg gttttttaac ctt 753

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62 <210> SEQ ID NO: 3
63 <211> LENGTH: 879
64 <212> TYPE: DNA
65 <213> ORGANISM: Human
67 <400> SEQUENCE: 3
68 ccaccgcgcc cagccattg gctgtttgt atgtctacct tcctaacag taagagggaa 60
69 ctgtcttgt gttcttttt tctctctgt gctgacagca caatgaccag tacctagtag 120
70 ttgcagttag ctttgatgaa caagccagca aatggtactt ttcttcctta tctgaacata 180
71 ccatttatat tgacttagat tatattctcc tgccttttaa aaagatggac ttcagcagaa 240
72 atctttatga tattggggaa caactggaca gtgaagatct ggcctccctc aagttcctga 300
73 gcctgaacta cattccgcaa aggaagcaag aacccatcaa gcatgccttg atgttatcc 360
74 agagacycca ggaagagaga atgttgagg aaagcaatct gtcctcctg aaggagctgc 420
75 tcttcgaat taatagactg gatttgctga ttacctacct aaacactaga aaggaggaga 480
76 tggaaaggga acttcagaca ccaggcagg ctaaatctt tgcctacag tgggtggaaa 540
77 ctcccatgtt gggactggga ggtgtgggtt gaattggacg cctctgagct gattggggct 600
78 tttttttgtg gtacctgcc tagtgctgg gaaccagca gtgccacaat tctaaagctt 660
79 ctacagaaga cagtagtgcc ttggtgtcc tgetaaaggc tgetaaactt agcttctccc 720
80 caccclagag agagtgggtt aacaaaggcg tgagagagaa accaacattc agtatcattt 780
81 gggaggcttt ggaagatgt ccaccggag ccagattaag aaatttaggg gccttatata 840
82 taattctata gaaatgctaa gaccataaaa taaaaattt 879

84 <210> SEQ ID NO: 4
85 <211> LENGTH: 659
86 <212> TYPE: DNA
87 <213> ORGANISM: Human
89 <400> SEQUENCE: 4
90 ccgcgcgttg gccgattcat taatgcagct ggcacgcagg ttcccgact ggaaaagcgg 60
91 gcagtgagcg caacgcaatt aatgtgagtt agtcactctt aggcactcca tggcccatgc 120
92 cattactggc ttatgttga gggtgccctt tgggatccga gcccctgtg gctccatata 180
93 tcacatggga cttatttggc caagatttct aaagtgtctc catttcccaa ccacaaaggg 240
94 tcatgtctta tcagatttca gaagaagtga gcagatcaga attgaggtct ttaagtttc 300
95 ttttgcaaga ggaatctctc aaatgcaaac tggatgatga catggtgcct gggaaacagca 360
96 ggccacaatt ctaagcttct acagaaaaga cagtagtgcc ttgggtggcc tgctaaaggc 420
97 tgtaaaactt agcttctccc caccctagag agagtgggtt aacaaaggcg tgagagagaa 480
98 accacattca gtatcatttg ggaggctttg ggaagatgtc ccaccggagc cagattaaga 540
99 aatttagggg ccttatatat aattctatag aaatgctaag accataaaat aaaaatttat 600
100 ttttcaagt gaaacattac ttagagggtat gctgaagtta taatagagtt tttctaagt 659

102 <210> SEQ ID NO: 5
103 <211> LENGTH: 448
104 <212> TYPE: DNA
105 <213> ORGANISM: Human
107 <400> SEQUENCE: 5
108 ggggactggg tgacatctga catggcttct cctttatect ctcaattctg tctttctggg 60
109 ccagaaaaca tggaaatcgt tccctagtag cctgctggct gtgagagacc agcagaaact 120
110 gtcagaaact tgggaagcaa gggcaggtcc ttggttgagg aaattggaaa ttaaaaaaaa 180
111 aaatctaata taaaaaccag tagggctcaa tcagattcca actttatttc tctcctctt 240
112 acaacctgct ggatatattc atagagatgg agaaggggt catcctggga gaaggaaagt 300
113 tggacatcct gaaaagagtc tgtgccaaa tcaacaagag cctgctgaag ataatacag 360
114 actatgaaga attcagcaaa gtaccgcaat ttcctatgtt ttaacgcagc ataggtcaga 420
115 agggggcctg cgcagctcga taatctgg 448

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117 <210> SEQ ID NO: 6
118 <211> LENGTH: 228
119 <212> TYPE: DNA
120 <213> ORGANISM: Human
122 <400> SEQUENCE: 6
123 cccgcctcta ctaagttttg atagctggca aaatcggcta ccatatcaca ggtgttttta      60
124 gtcaactgtt gttcgggggt acccttttgc ttatctgagg agagaagcag cagccttgaa      120
125 ggaagtcctg atgaattttc aaatgttagt taatttacta tctggtacct gcatgtgttc      180
126 tcccttcagc cttctaccac atgcacatct taacgtgcct gctctact      228
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 177
130 <212> TYPE: DNA
131 <213> ORGANISM: Human
133 <400> SEQUENCE: 7
134 cgggtcaccc ttggggtaaa ttttccggg ttttccgag ggggaggagt tgtgtgggg      60
135 aatgacaatc tcggactctc caagagaaca ggatagttaa tcccaggtag cacggaaaac      120
136 ctccaaatcc ttttttttac attacattac agattctagt tttttaattt gtttagct      177
138 <210> SEQ ID NO: 8
139 <211> LENGTH: 784
140 <212> TYPE: DNA
141 <213> ORGANISM: Human
143 <400> SEQUENCE: 8
144 aatattaata tatgtgcaaa gtgttcagga ggcccaggta ttgggacact gactttacaa      60
145 cgatggggca gaagtctgag aggtcctgtg tgaaggaaat aggtagaaac tagttcttcg      120
146 aggaacagac cccgagtttg ggtggtgcaa tggaaagcaa gtccctctac tagggagttg      180
147 tttgtttaca tctctagtgt ttgaccaca gagtcagctc ctggggtggg tttttgtaat      240
148 ccagactttg gacaaagttt accaaatgaa aagcaaacct cggggatact gtctgatcat      300
149 ccaacaatca caattttgca aaagcacggg agaaagtgc caaacttcac agcattaggg      360
150 acaggaaatg aacacacttg gatgcagggt ggcggggctc gtgagcgtgc cttccaaatt      420
151 cccccaaatg ggagaaaatc cttcttatgc ctatttttt ttaaatcaaa agggatttaa      480
152 catagctata ccaaaagggc catggttcaa gaaaatggat ttaaacatat ttccctgttg      540
153 aggtaaagaa cattcttata catttatcag ttctctgctt tttttaaaaa ttaatttttt      600
154 aaataaaagt aatgtatgta taaatataaa atatcaaatc ttactaaaag acataatgaa      660
155 aagcagtaat aagctttgtt ttgaattcag ctaaatgcac agcgcttctg tggaaatgtat      720
156 taggcgatga aaatgctggt gggatcaaa ccttatagag gctgcatttt tacaggttgg      780
157 gctg      784
159 <210> SEQ ID NO: 9
160 <211> LENGTH: 771
161 <212> TYPE: DNA
162 <213> ORGANISM: Human
164 <400> SEQUENCE: 9
165 ggtcctttgc ttgtctctcg gtgtcctgca ctctccctct cctgctgggc tgtgottgct      60
166 atagtgtggc gtactgttgc agtttcactt ttcaggggct ttgaccacga ctttgaagag      120
167 cttcattttg agatcaagcc ccacgatgac tgcacagtag agcaaatcta tgacattttg      180
168 aaaatctacc aactcatgga ccacagtaac atggactget tcatctgctg tatcctctcc      240
169 catggagaca agggcatcat ctatggcact gatggacagg agcccccat ctatgagctg      300
170 acatctcagt tcactggttt gaagtgcctt tcccttctg gaaaacccaa agtgtttttt      360
171 attcaggatt gtcaggggga taactaccag aaaggtatac ctgttgagac tgatttcagag      420
172 gagcaaccct atttagaaat ggatttatca tcacctcaaa cgagatatat cccggatgag      480

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```

173 gctgactttc tgcctgggat ggcactgtg aataactgtg ttcctaccga aacctgcag 540
174 aggggaacctg gtacatccag tcactttgcc agagcctgag agagcgatgt cctcggtgag 600
175 ttttgcctac tcagccctcc tcactgttac actaccttcc cccctactc catcacacta 660
176 ctatctactc atattcagag cctattagaa agtgctatgt gatttagatc acattaacag 720
177 gtcagagAAC tgcctcaggg gagtgggttc cgttcaactc taaatgtcta g 771
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 223
181 <212> TYPE: DNA
182 <213> ORGANISM: Human
184 <400> SEQUENCE: 10
185 cttcgtggtc tgcctcaggg cccgcaggcc cccagttctc cgtgctttcc ccttcagccg 60
186 tcgcaatagt gtgtgaatag ttgcagagg cgatgatatt ctcaccatcc tgactgaagt 120
187 gaactatgaa gtaagcaaca aggatgacaa gaaaaacatg gggaaacaga tgcctcagcc 180
188 tacttttaca ctaagaaaaa aacttgtctt cccttctgat tga 223
190 <210> SEQ ID NO: 11
191 <211> LENGTH: 5
192 <212> TYPE: PRT
193 <213> ORGANISM: Human
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Xaa at position four is any amino acid.
198 <400> SEQUENCE: 11
199 Gln Ala Cys Xaa Gly
200 1 5
202 <210> SEQ ID NO: 12
203 <211> LENGTH: 8
204 <212> TYPE: PRT
205 <213> ORGANISM: Human
207 <400> SEQUENCE: 12
208 Arg Asn Pro Ala Glu Gly Thr Trp
209 1 5
211 <210> SEQ ID NO: 13
212 <211> LENGTH: 20
213 <212> TYPE: DNA
214 <213> ORGANISM: Human
216 <400> SEQUENCE: 13
217 ggtggagcgg gtgtgggtcg 20
219 <210> SEQ ID NO: 14
220 <211> LENGTH: 23
221 <212> TYPE: DNA
222 <213> ORGANISM: Human
224 <400> SEQUENCE: 14
225 tattttgact tagattatat tct 23
227 <210> SEQ ID NO: 15
228 <211> LENGTH: 22
229 <212> TYPE: DNA
230 <213> ORGANISM: Human
232 <400> SEQUENCE: 15
233 gcctacaggt ggggtgaaac tc 22
235 <210> SEQ ID NO: 16

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236 <211> LENGTH: 20
237 <212> TYPE: DNA
238 <213> ORGANISM: Human
240 <400> SEQUENCE: 16
241   cccaaccaca aagggtcacg                               20
243 <210> SEQ ID NO: 17
244 <211> LENGTH: 21
245 <212> TYPE: DNA
246 <213> ORGANISM: Human
248 <400> SEQUENCE: 17
249   gatgacatgg tgcctgggaa c                               21
251 <210> SEQ ID NO: 18
252 <211> LENGTH: 21
253 <212> TYPE: DNA
254 <213> ORGANISM: Human
256 <400> SEQUENCE: 18
257   ttctcctcct cttacaacct g                               21
259 <210> SEQ ID NO: 19
260 <211> LENGTH: 22
261 <212> TYPE: DNA
262 <213> ORGANISM: Human
264 <400> SEQUENCE: 19
265   ttcagcaaag taccgcaatt tc                               22
267 <210> SEQ ID NO: 20
268 <211> LENGTH: 21
269 <212> TYPE: DNA
270 <213> ORGANISM: Human
272 <400> SEQUENCE: 20
273   ttgaccttat ctgaggagag a                               21
275 <210> SEQ ID NO: 21
276 <211> LENGTH: 23
277 <212> TYPE: DNA
278 <213> ORGANISM: Human
280 <400> SEQUENCE: 21
281   tcaaatgtta gtttaatttac tat                             23
283 <210> SEQ ID NO: 22
284 <211> LENGTH: 23
285 <212> TYPE: DNA
286 <213> ORGANISM: Human
288 <400> SEQUENCE: 22
289   tcccgggttt tcccgagggg gag                             23
291 <210> SEQ ID NO: 23
292 <211> LENGTH: 21
293 <212> TYPE: DNA
294 <213> ORGANISM: Human
296 <400> SEQUENCE: 23
297   tcacaggtag cacggaaaac c                               21
299 <210> SEQ ID NO: 24
300 <211> LENGTH: 22

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VERIFICATION SUMMARY

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Input Set : A:\seqlist.txt.txt

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L:199 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:11  
L:199 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:11  
L:199 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11